Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

- 1. (Currently amended) A <u>medicinal preparation in powder form</u> for administration through a mucosal membrane, <u>comprising an admixture of (i) a medicine</u>

 that has a molecular weight greater than 1000 MW and (ii) consisting essentially of a high molecular weight medicine and a cationic aminoalkylmethacrylate copolymer, <u>which</u> that comprises a dimethylaminoethyl methacrylate, methyl methacrylate, and butyl methacrylate.
- 2. (Currently amended) The <u>medicinal powder preparation</u> of claim 1, further comprising a viscous polymer.
 - 3.-5. (Canceled)
- 6. (Currently amended) The <u>medicinal powder preparation</u> of claim 2, wherein the viscous polymer is hydroxypropylmethyl cellulose.
- 7. (Currently amended) The <u>medicinal powder preparation</u> of claim 1, wherein the medicine of high molecular weight is selected from the group consisting of bioactive peptides and proteins, antibodies, vaccines, and antigens.
- 8. (Currently amended) The <u>medicinal powder preparation</u> of claim 7, wherein the protein is a granulocyte colony-stimulating factor.
- 9. (Currently amended) The <u>medicinal powder preparation</u> of claim 1, wherein the <u>mucosal membrane</u> mucosa is nasal mucosa, ocular mucosa, oral mucosa, pulmonary mucosa, vaginal mucosa, gastric mucosa, small intestine mucosa, large intestine mucosa, or rectal mucosa.
 - 10.-12. (Canceled)

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- 13. (Currently amended) The <u>medicinal powder preparation</u> of claim 1, wherein the ratio of cationic aminoalkylmethacrylate copolymer to <u>medicine</u> high molecular weight drug is less than 2:1.
- 14. (Currently amended) The <u>medicinal powder preparation</u> of claim 13, wherein the percentage weight-by-weight of cationic aminoalkylmethacrylate copolymer in the <u>medicinal powder powdered preparation</u> is 0.1 to 90 % (w/w).
 - 15. (Canceled)
- 16. (Currently amended) The <u>medicinal powder preparation</u> of claim 1, wherein the medicine of high molecular weight is selected from the group consisting of calcitonin, insulin, proinsulin, vasopressin, desmopressin, luteinizing hormone, luteinizing hormone-releasing hormone, somatostatin, prolactin, glucagon, gastrin, secretin, kallikrein, urokinase, neurotensin, enkephalin, kyotorphin, endorphin, endothelin, angiotensin, transferrin, atrial natriuretic polypeptide, epithelial growth factor, growth hormone, parathryoid hormone, interferons, interleukins, tumor necrosis factor, leukemia inhibitory factor, hematopoietic stem cell growth factor, erythropoietin, granulocyte colony-stimulating factor, granuloctye macrophage-stimulating factor, macrophage colony-stimulating factor, thrombopoietin, superoxide dismutase, tissue plasminogen activator, antithrombin, blood coagulation factors, anti-IgE antibodies, anti-IGA antibodies, anti-tumor antibodies, anti-platelet antibodies to tumor necrosis factor, anti-interleukin antibodies, HIV-neutralizing antibodies, anti-platelet antibodies, antihepatitis virus antibodies, hepatitis vaccines, influenza vaccines, pertussis vaccine, diptheria vaccine, tetanus toxoids vaccine.
- 17. (Currently amended) The <u>medicinal powder preparation</u> of claim 1, wherein said <u>high molecular weight</u> medicine is a protein.
- 18. (Currently amended) The <u>medicinal powder preparation</u> of claim 17, wherein said protein is conjugated to a hapten.
- 19. (Currently amended) The <u>medicinal powder preparation</u> of claim 18, further comprising an adjuvant.

- 20. (Currently amended) The <u>medicinal powder preparation</u> of claim 1, further comprising an adjuvant.
 - 21. (Not entered)
 - 22.-23. (Canceled)
- 24. (Currently amended) The <u>medicinal powder preparation</u> of claim 14, wherein the percentage weight-by-weight of cationic aminoalkylmethacrylate copolymer in the <u>medicinal powder powdered preparation</u> is 1 to 50% (w/w).
- 25. (Currently amended) The <u>medicinal powder preparation</u> of claim <u>9</u> [[1]], wherein the <u>mucosal membrane</u> mucosa is nasal mucosa.
- 26. (Withdrawn) A method for enhancing the absorption of a high molecular weight medicine through a mucosal membrane of an individual, comprising (i) formulating a high molecular weight medicine with a cationic aminoalkylmethacrylate copolymer; (ii) preparing a powdered preparation of the formulation; and (iii) administering the powdered formulation via pernasal administration to the individual, wherein the cationic aminoalkylmethacrylate copolymer comprises a dimethylaminoethyl methacrylate, methyl methacrylate, and butyl methacrylate, and wherein the release of the high molecular weight medicine from the formulation is not sustained.
- 27. (Withdrawn) The method of claim 26, wherein the cationic aminoalkylmethacrylate copolymer is an Eudragit® E copolymer.
- 28. (Withdrawn) The method of claim 27, wherein the Eudragit® E copolymer is Eudragit® E100.
 - 29. (Canceled)